

Atlantic Richfield Company

Jack Oman
Project Manager

4 Centerpointe Drive
LaPalma, CA. 90623-1066
(657) 529-4581 office
(714) 670-5195 fax
jack.oman@bp.com

June 6, 2016

CERTIFIED – RETURN RECEIPT REQUESTED

Mr. Dave Seter
Remedial Project Manager
U.S. Environmental Protection Agency - Region 9
75 Hawthorne Street, SFD-9-1
San Francisco, CA 94105

**Subject: May 2016 Monthly Report, Yerington Mine Site, Lyon County, Nevada:
Administrative Order for Remedial Investigation and Feasibility Study (RI/FS),
CERCLA Docket No. 9-2007-0005; Administrative Order on Consent, CERCLA
Docket No. 09-2009-0010**

Dear Mr. Seter:

Pursuant to the above referenced orders issued by the U.S. Environmental Protection Agency - Region 9 (EPA), Atlantic Richfield Company (ARC) has prepared this May 2016 monthly report for RI/FS and Operations and Maintenance (O&M) activities at the Yerington Mine Site (Site).

May 2016 Activities

Site Security and O&M Activities

- Continued Site O&M, security and bird deterrent activities. The two security cameras indicated no activity of concern.
- Wind dancers, bird deterrent flags, Wetlands Waileys and Bird Gard towers continued to be deployed in accordance with current EPA-approved bird deterrent methods. To reduce birds from becoming habituated to the presence of wind dancers and flags, these devices were relocated as needed. Bird Gard towers 'A', 'B' and 'C' were in operation throughout May.
- Continued the EPA-approved bird deterrent schedule with at least three monitoring visits per day at all ponds. Observations were made within half an hour of dawn and dusk and during mid-day.
- PWS Pond water levels: North Cell = 0.0 feet; Middle Cell = 0.0 feet; South Cell = 0.0 feet.
- As of May 31, the Arimetco FMS pond levels were: Phase 1 Pond = 4.10 feet; FMS Evaporation Pond A = 8.97 feet; FMS Evaporation Pond B = 5.74 feet; FMS Evaporation Pond C = 6.39 feet; VLT Pond = 12.81 feet; Slot Pond = 17.89 feet. The freeboard level in FMS Evaporation Pond A on May 31 was approximately 1.18 feet. Fluid transfers in May consisted of approximately 13,200 gallons from the Phase 1 Pond to Pond C. See attached monitoring data.
- About 1.02 inches of rain fell on the Site in May (approximately 3.1 inches since January 1, 2016). See attached monitoring data.
- Approximately 23,906 gallons of solution were pumped from the leak detectors in May including 1,657 gallons from the VLT ditches and Sediment Pond, and 22,173 gallons from the Slot HLP perimeter collection ditch. See attached monitoring data.
- FMS pond samples for total dissolved solids (TDS) analyses and electrical conductivity (EC) measurements were obtained on May 26 from various depths and locations around the ponds.
- Finalized and transmitted the 2015 Annual Arimetco FMS Operation and Maintenance Report dated May 16, 2016.

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May 2016 Activities - Continued

Site Characterization Activities

- Site-wide monthly groundwater elevation measurements were obtained May 24-25 for all monitoring wells.
- A Pit Lake water elevation of 4,235.05 feet amsl was recorded on May 26 from the pressure transducer, an increase of 0.57 feet since April 26, 2016. The pit lake elevation has risen 1.41 feet since May 26, 2015.
- A signed access agreement from the owner of DW-214 was received and the residence was added to the Domestic Well Program in May 2016 (new owners requested to be included in the Domestic Well Program because neighboring residences were included).
- There were no changes to the Bottled Water Program in May 2016.
- Completed and transmitted the Annual 2015 Groundwater Monitoring Report (GMR) on May 27. Initiated the compilation of data for inclusion in the 1Q 2016 GMR.
- Initiated the compilation of data for inclusion in the 1Q 2016 Domestic Well Monitoring Report (DWMR).
- Initiated the preparation of a technical memorandum describing proposed modifications to the Site-wide groundwater monitoring program.
- Continued responses to EPA comments dated April 11, 2016 on the OU-3 Human Health Risk Assessment Technical Memorandum (Tech Memo).
- Continued to develop the OU-3 Human Health Risk Assessment Tech Memo no. 2.
- Continued the development of responses to EPA and stakeholder comments dated April 5, 2016 on the Draft Initial Screening of Remedial Alternatives Tech Memo dated December 2, 2015.
- Continued developing responses to EPA comments dated February 11, 2016 on the Background Groundwater Quality Assessment - Revision 2 (revised BGQA) dated July 2, 2015.
- Continued to compile information for inclusion in the OU-1 RI Report.
- Continued to compile soil classification and XRF data collected during OU-7 Phase 1 field sampling activities, and started to compile the analytical data received from the project laboratory.
- Re-sampled several OU-7 locations on May 4 due to laboratory mishandling of the previously collected samples.
- Continued planning for the implementation of the OU-4a field program including the construction of two drill pads located within the evaporation ponds.
- Routine database management activities in support of Site investigations and monitoring activities.

Planned June/July 2016 Activities

Site Security and O&M Activities - Continued

- Continue routine Site O&M, security and bird deterrent activities.
- Continue FMS pond sampling for TDS analyses and EC measurements.

Site Characterization Activities

- Continue groundwater elevation and pit lake level measurements, and meteorological monitoring.
- Perform the 2Q 2016 domestic well monitoring event. The number of domestic wells requiring monitoring will decrease as properties continue to be connected to the Yerington municipal system, and domestic wells are taken out of service.
- Continue the Bottled Water Program. ARC will be requesting approval from EPA to curtail the Bottled Water Program as properties that are currently receiving bottled water continue to be connected to the Yerington municipal system.
- Continue the compilation of data for inclusion in the 1Q 2016 GMR and 1Q 2016 DWMR.

Planned June/July 2016 Activities - Continued

Site Characterization Activities - Continued

- Continue the preparation of a tech memo describing proposed modifications to the Site-wide groundwater monitoring program. Continue discussions with EPA regarding the proposed reductions to the groundwater and domestic well monitoring programs including analytical parameters, wells to be sampled and the quarterly/annual report contents.
- Continue the development of and transmit responses to EPA and stakeholder comments on the Draft Initial Screening of Remedial Alternatives Tech Memo. Participate in a conference call to be held on June 7 to discuss this tech memo with EPA and other project stakeholders.
- Continue the development of and transmit responses to EPA comments on the revised BGQA. Attend a technical meeting on June 29 to discuss the revised BGQA.
- Continue to compile information for inclusion in the OU-1 RI Report, including an analysis of chemical concentration stability in Site-wide groundwater monitor wells.
- Continue to compile OU-7 field and laboratory analytical data into tables and maps for use in a future technical meeting with EPA and other stakeholders.
- Continue to prepare for, and initiate the OU-4a field activities on June 7.
- Continue working on responses to comments from EPA dated March 16, 2015 on the Process Areas (OU-3) Step-Out Characterization DSR, and the development of a Process Areas RI Report.
- Discuss with EPA on a June 1, 2016 conference call responses to EPA comments on the OU-3 Human Health Risk Assessment Tech Memo no. 2, and transmit the Tech Memo.
- Continue to develop the OU-1 Human Health Conceptual Site Model Tech Memo.

Please contact me at (657) 529-4581 or via e-mail at jack.oman@bp.com if you have any questions or comments about this May 2016 monthly report.

Sincerely,



Jack Oman
Project Manager

Attachment

cc: Harry Ball, EPA – via electronic mail
Dante Rodriguez, EPA – via electronic mail
Andrew Helmlinger, EPA – via electronic mail
Tom Dunkelman, EPA – via electronic mail
Jeff Collins, NDEP – via electronic mail
Jeryl Gardner, NDEP – via electronic mail
Dave Davis, BLM – via electronic mail
Dan Newell, City of Yerington – via electronic mail
Phyllis Hunewill – via electronic mail
Jim Sanford, MVEC – via electronic mail
Tom Grady, Nevada State Assembly – via electronic mail
Chairwoman Thom, YPT – via electronic mail
Ginny Hatch, YPT – via electronic mail
Deborah Dunn, YPT – via electronic mail
Dietrick McGinnis, McGinnis and Associates – via electronic mail
Tom Bowden, Ridolfi, Inc. – via electronic mail
Chairman Sanchez, WRPT – via electronic mail

Cynthia Ocegueda, WRPT – via electronic mail
Ron Halsey, Atlantic Richfield Company – via electronic mail
Nathan Block, Atlantic Richfield Company – via electronic mail
Patricia Gallery, Atlantic Richfield Company – via electronic mail
Brian Johnson, Atlantic Richfield Company – via electronic mail
John Batchelder, EnviroSolve – via electronic mail
Dan Ferriter, Copper Environmental – via electronic mail
Mike Mahon, Copper Environmental – via electronic mail
Jim Chatham, Atlantic Richfield Company – via electronic mail
Adam Cohen, Davis Graham & Stubbs – via electronic mail
Bill Duffy, Davis Graham & Stubbs – via electronic mail
Tom Patton, Singatse Peak Services, LLP – via electronic mail
Taurus Massey, Singatse Peak Services, LLP – via electronic mail
David Peri, Peri and Sons – via electronic mail
John McMillan, CBI – via electronic mail
Julian Isham, CBI – via electronic mail
Victor Early, Tetra Tech – via electronic mail
Colin Lee, Tetra Tech – via electronic mail
Ken Greene, CH2M Hill – via electronic mail
Peggy Pauly, YCAG – via electronic mail
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